

DuPont Performance Polymers Zytel® PLS 95G40DH1T BK261 Nylon 6 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 40% Glass Fiber Filled

Material Notes:

40% Glass Reinforced Heat Stabilized Polyamide Zytel PLS95G40DH1T is a 40% GR impact modified PA made with SHIELD technology its superior heatInformation provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-PLS-95G40DH1T-BK261-Nylon-6-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	DAM; ISO 1183
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	175 MPa	25400 psi	DAM; ISO 527-1/-2
Tensile Stress	17.41 MPa	2525 psi	DAM; ISO 11403-1 -2
	@Strain 0.300 %, Temperature 150 °C	@Strain 0.300 %, Temperature 302 °F	
	25.48 MPa	3696 psi	DAM; ISO 11403-1 -2
	@Strain 0.200 %, Temperature 23.0 °C	@Strain 0.200 %, Temperature 73.4 °F	
	26.55 MPa	3851 psi	DAM; ISO 11403-1 -2
	@Strain 0.200 %, Temperature -40.0 °C	@Strain 0.200 %, Temperature -40.0 °F	
	33.05 MPa	4794 psi	DAM; ISO 11403-1 -2
	@Strain 0.900 %, Temperature 150 °C	@Strain 0.900 %, Temperature 302 °F	
	42.1 MPa	6110 psi	DAM; ISO 11403-1 -2
	@Strain 1.50 %, Temperature 150 °C	@Strain 1.50 %, Temperature 302 °F	
	49.83 MPa	7227 psi	DAM; ISO 11403-1 -2
	@Strain 2.30 %, Temperature 150 °C	@Strain 2.30 %, Temperature 302 °F	
	77.78 MPa	11280 psi	DAM; ISO 11403-1 -2
	@Strain 0.700 %, Temperature 150 °C	@Strain 0.700 %, Temperature 302 °F	

Mechanical Properties	Temperature 23.0 °C Metric	Temperature 73.4 °F English	Comments
	84.47 MPa	12250 psi	
	@Strain 0.700 %, Temperature -40.0 °C	@Strain 0.700 %, Temperature -40.0 °F	DAM; ISO 11403-1 -2
	111.24 MPa	16134 psi	
	@Strain 1.10 %, Temperature 23.0 °C	@Strain 1.10 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	133.7 MPa	19390 psi	
	@Strain 1.20 %, Temperature -40.0 °C	@Strain 1.20 %, Temperature -40.0 °F	DAM; ISO 11403-1 -2
	145.83 MPa	21151 psi	
	@Strain 1.70 %, Temperature 23.0 °C	@Strain 1.70 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	180.23 MPa	26140 psi	
	@Strain 1.80 %, Temperature -40.0 °C	@Strain 1.80 %, Temperature -40.0 °F	DAM; ISO 11403-1 -2
Elongation at Break	4.0 %	4.0 %	DAM; ISO 527-1/-2
Tensile Modulus	11.3 GPa	1640 ksi	DAM; ISO 527-1/-2
Flexural Strength	277 MPa	40200 psi	DAM; ISO 178
Flexural Modulus	10.0 GPa	1450 ksi	DAM; ISO 178
Secant Modulus	1.77 GPa	257 ksi	
	@Strain 4.80 %, Temperature 100 °C	@Strain 4.80 %, Temperature 212 °F	DAM; ISO 11403-1 -2
	2.41 GPa	350 ksi	
	@Strain 3.10 %, Temperature 100 °C	@Strain 3.10 %, Temperature 212 °F	DAM; ISO 11403-1 -2
	3.78 GPa	549 ksi	
	@Strain 1.40 %, Temperature 100 °C	@Strain 1.40 %, Temperature 212 °F	DAM; ISO 11403-1 -2
	5.19 GPa	753 ksi	
	@Strain 0.700 %, Temperature 100 °C	@Strain 0.700 %, Temperature 212 °F	DAM; ISO 11403-1 -2
	6.36 GPa	923 ksi	
	@Strain 2.70 %, Temperature 23.0 °C	@Strain 2.70 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	8.09 GPa	1170 ksi	

Mechanical Properties	Metric @Strain 1.90 %, Temperature 23.0 °C	English @Strain 1.90 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2 Comments
	8.2575 GPa	1197.7 ksi	
	@Strain 2.80 %, Temperature -40.0 °C	@Strain 2.80 %, Temperature -40.0 °F	DAM; ISO 11403-1 -2
	9.37 GPa	1360 ksi	
	@Strain 0.100 %, Temperature 100 °C	@Strain 0.100 %, Temperature 212 °F	DAM; ISO 11403-1 -2
	9.6465 GPa	1399.1 ksi	
	@Strain 2.00 %, Temperature -40.0 °C	@Strain 2.00 %, Temperature -40.0 °F	DAM; ISO 11403-1 -2
	10.1 GPa	1470 ksi	
	@Strain 1.10 %, Temperature 23.0 °C	@Strain 1.10 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	11.1 GPa	1620 ksi	
	@Strain 1.20 %, Temperature -40.0 °C	@Strain 1.20 %, Temperature -40.0 °F	DAM; ISO 11403-1 -2
	11.4 GPa	1650 ksi	
	@Strain 0.600 %, Temperature 23.0 °C	@Strain 0.600 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	12.27 GPa	1780 ksi	
	@Strain 0.600 %, Temperature -40.0 °C	@Strain 0.600 %, Temperature -40.0 °F	DAM; ISO 11403-1 -2
	13.38 GPa	1941 ksi	
	@Strain 0.100 %, Temperature 23.0 °C	@Strain 0.100 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	13.68 GPa	1984 ksi	
	@Strain 0.100 %, Temperature -40.0 °C	@Strain 0.100 %, Temperature -40.0 °F	DAM; ISO 11403-1 -2
Charpy Impact Unnotched	10.5 J/cm ²	50.0 ft-lb/in ²	DAM; ISO 179/1eU
Charpy Impact, Notched	2.10 J/cm ²	9.99 ft-lb/in ²	DAM; ISO 179/1eA
	1.60 J/cm ²	7.61 ft-lb/in ²	DAM; ISO 179/1eA
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Thermal Properties	Metric	English	Comments
Melting Point	263 °C	505 °F	DAM; 10°C/min; ISO 11357-1/-3

Descriptive Properties	Value	Comments
Additives	Release agent	
Delivery Form	Pellets	
Part Marking Code	>PA-IGF40<	ISO 11469
Processing	Injection Moulding	
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	
Resin Identification	PA-IGF40	
Special Characteristics	Heat stabilised or stable to heat	

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